ITTcert
BY ORSYS

Course : Introduction to AI and Machine Learning on Google Cloud

Official course, preparation for Google Cloud certification exams

Practical course - 1d - 7h00 - Ref. GML
Price : 850 € E.T.

With this training course, you'll learn to master the key concepts of artificial intelligence and Machine Learning in a business context, using Google Cloud Services. You'll discover how to identify automation and data enhancement opportunities, choose the right tools (Vertex AI, AutoML, BigQuery ML) and integrate Machine Learning models into your processes.

Teaching objectives

At the end of the training, the participant will be able to:

- Recognize the AI data conversion technologies and tools provided by Google Cloud
- Create generative AI projects using Gemini multimodal, efficient prompts and model tuning
- Explore different options for developing an AI project on Google Cloud
- Create an end-to-end Machine Learning model with Vertex AI

Intended audience
Professional AI developers, data scientists and Machine Learning Engineers wishing to create predictive and generative AI projects on Google Cloud.

Prerequisites
Basic knowledge of Machine Learning concepts. Previous experience with programming languages such as SQL and Python.

Certification
We recommend you take this course if you want to prepare for certification as a "Google Cloud Professional Machine Learning Engineer".
Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

(1) Foundations of AI

- Discover the challenges and opportunities of AI.
- Recognize the AI/ML framework on Google Cloud.
- Identify the main components of the Google Cloud infrastructure.
- Define data and ML products on Google Cloud.
- Discover ML model categories.
- Introduction to BigQuery ML.

Hands-on work
Lab: Predicting visitor purchases with BigQuery ML.

(2) AI development options

- Define different options for creating an ML model on Google Cloud.
- Recognize the main functions and their use cases.
- Use the Natural Language API to analyze text.

Hands-on work
Lab: Entity and sentiment analysis with the Natural Language API.

(3) AI development workflow

- Define the ML model creation workflow.
- Describe MLOps and workflow automation on Google Cloud.
- Develop an end-to-end ML model using AutoML on Vertex AI.

Hands-on work
Lab: Predicting credit risk with Vertex AI and AutoML.

(4) Generative AI

- Defining generative AI and basic models.
- Using Gemini multimodal with Vertex AI Studio.
- Design effective prompts and tune models using different methods.
- Recognize AI solutions and integrated Gen AI features.

Hands-on work
Lab: Getting started with Vertex AI Studio.

Dates and locations

REMOTE CLASS
2026 : 19 Mar., 11 June, 24 Sep., 3 Dec.

PARIS LA DÉFENSE
2026 : 19 Mar., 11 June, 24 Sep., 3 Dec.